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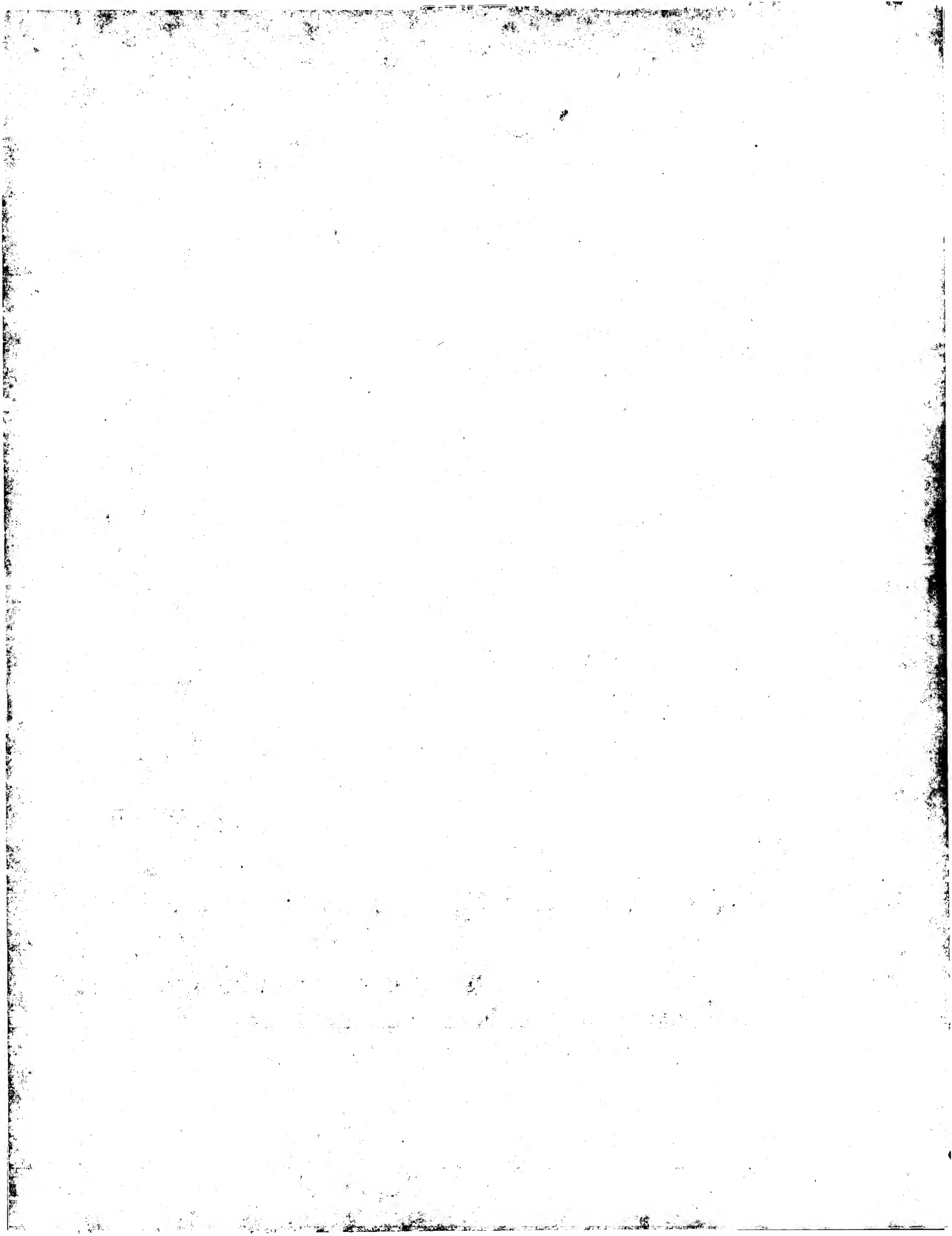
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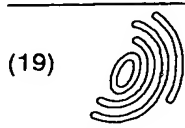
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(71) Applicant: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Kadoma-shi, Osaka 571 (JP)

(72) Inventors:

• Aoki, Masaki

Mino-shi, Osaka-fu 562 (JP)

• Torii, Hideo

Higashiosaka-shi, Osaka-fu 578 (JP)

• Fujii, Eiji

Hirakata-shi, Osaka-fu 578 (JP)

• Ohtani, Mitsuhiro

Sakai-shi, Osaka-fu 591 (JP)

• Inami, Takashi

Suita-shi, Osaka-fu 565 (JP)

• Kawamura, Hiroyuki

Katano-shi, Osaka-fu 576 (JP)

• Tanaka, Hiroyoshi

Kyoto-shi, Kyoto-fu 605 (JP)

• Murai, Ryuichi

Toyonaka-shi, Osaka-fu 565 (JP)

• Ishikura, Yasuhisa

Katano-shi, Osaka-fu 576 (JP)

• Nishimura, Yutaka

Kadoma-shi, Osaka-fu 571 (JP)

• Yamashita, Katsuyoshi

Katano-shi, Osaka-fu 576 (JP)

(74) Representative: Butcher, Ian James et al

A.A. Thornton & Co.

235 High Holborn

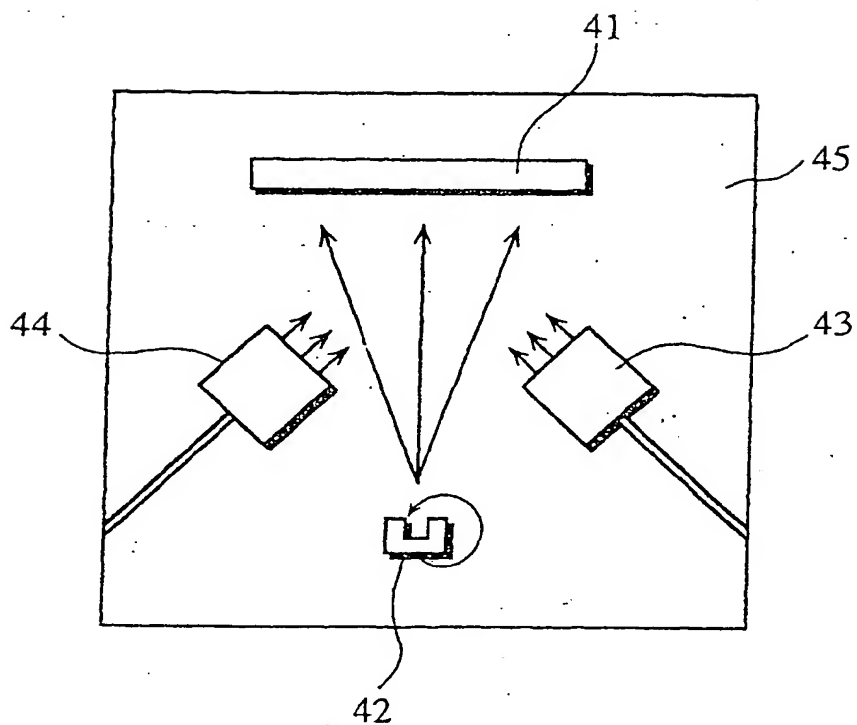
London WC1V 7LE (GB)

(54) Plasma display panel suitable for high-quality display and production method

(57) The first object of the present invention is to provide a PDP with improved panel brightness which is achieved by improving the efficiency in conversion from discharge energy to visible rays. The second object of the present invention is to provide a PDP with improved panel life which is achieved by improving the protecting layer protecting the dielectric glass layer. To achieve the first object, the present invention sets the amount of xenon in the discharge gas to the range of 10% by volume to less than 100% by volume, and sets the charging pressure for the discharge gas to the range of 500 to 760Torr which is higher than conventional charging pressures. With such construction, the panel brightness

increases. Also, to achieve the second object, the present invention has, on the surface of the dielectric glass layer, a protecting layer consisting of an alkaline earth oxide with (100)-face or (110)-face orientation. The protecting layer, which may be formed by using thermal Chemical Vapor Deposition (CVD) method, plasma enhanced CVD method, or a vapor deposition method with irradiation of ion or electron beam, will have a high sputtering resistance and effectively protects the dielectric glass layer. Such a protecting layer contributes to the improvement of the panel life.

Fig. 7





European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 02 00 6618

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		8 October 2002	F de Ruyter-Noordman
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention f : earlier patent document, but published on or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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